

Author Index of Volume 170

- | | | |
|----------------------|--------------------------|--------------------------------|
| Aindow, M., 1 | Field, R. D., 11 | Papaconstantopoulos, D. A., 49 |
| Asaro, R. J., 143 | Fraser, H., 1, 227 | Pope, D. P., 39 |
| Becker, J. D., 161 | Gyurko, A. M., 169 | Rack, H. J., 215 |
| Becquart, C. S., 87 | Hack, J. E., 11 | Rice, J. R., 67 |
| Beltz, G. E., 67 | Henager, Jr., C. H., 185 | Rifkin, J. A., 87 |
| Benfield, C. T., 19 | Hirth, J. P., 185 | Sadananda, K., 199 |
| Bruemmer, S. M., 185 | Hou, D.-H., 1 | Sanchez, J. M., 161, 169, 177 |
| Brzeski, J. M., 11 | Jones, I. P., 227 | Shyue, J., 1 |
| Chen, Q., 103 | Kandra, J. T., 29 | Singh, D. J., 49 |
| Chu, F., 39 | Kim, D., 87 | Sun, Y., 67 |
| Clapp, P. C., 87 | Koch, C. C., 19 | Swaminathan, S., 227 |
| Clifton, R. J., 125 | Lee, E. W., 29 | Tien, J. K., 177 |
| Crimp, M. A., 95 | Lin, T. H., 103 | Tonn, S. C., 95 |
| Cuitino, A. M., 111 | Long, M., 215 | Vailhe, C., 59 |
| Dao, M., 143 | Mahapatra, R., 29 | Vignoul, G. E., 177 |
| Darolia, R., 11 | Maher, D. M., 227 | Xie, Z. Y., 59 |
| Escobar, J. C., 125 | Mehl, M. J., 49 | Zaluzec, N. J., 227 |
| Fahmy, Y., 19 | Ortiz, M., 111 | Zhang, Y., 95 |
| Farkas, D., 59 | | |
| Feng, C. R., 199 | | |

Subject Index of Volume 170

- Aging**
strain aging embrittlement of the ordered intermetallic compound NiAl, 11
- Alloys**
dislocation core structures in B2 NiAl alloys, 95
fracture properties of metals and alloys from molecular dynamics simulations, 87
non-Schmid effects and localized plastic flow in intermetallic alloys, 143
properties of ordered intermetallic alloys: first-principles and approximate methods, 49
- Aluminium**
computer simulation of dislocation core structure of metastable $\langle 111 \rangle$ dislocations in NiAl, 59
deformation mechanisms in intermetallic compounds based on Nb₃Al, 1
dislocation core structures in B2 NiAl alloys, 95
experimental determination of low order structure factors in the intermetallic compound TiAl, 227
on the deformation behavior of single crystalline Fe–Al, 29
strain aging embrittlement of the ordered intermetallic compound NiAl, 11
thermo-mechanical stability of forged Ti–25Al–11Nb (at.%), 215
- Atomic models**
estimates from atomic models of tension–shear coupling in dislocation nucleation from a crack tip, 67
- Beryllium**
strength and toughness of beryllium–niobium intermetallic compounds, 185
- Chromium**
characterization of the deformation behavior of the Cr₂Nb ordered intermetallic system, 177
- Composites**
creep of intermetallic composites, 199
- Computer simulations**
computer simulation of dislocation core structure of metastable $\langle 111 \rangle$ dislocations in NiAl, 59
- Core structures**
dislocation core structures in B2 NiAl alloys, 95
- Cracking**
estimates from atomic models of tension–shear coupling in dislocation nucleation from a crack tip, 67
micromechanics of stress and strain-controlled high-cycle fatigue crack initiation of intermetallic compounds, 103
- Creep**
creep of intermetallic composites, 199
- Crystals**
constitutive modeling of L12 intermetallic crystals, 111
- Deformation**
characterization of the deformation behavior of the Cr₂Nb ordered intermetallic system, 177
deformation mechanisms in intermetallic compounds based on Nb₃Al, 1
deformation twinning in intermetallic compounds—the dilemma of shears vs. shuffles, 39
on the deformation behavior of single crystalline Fe–Al, 29
- Dislocation**
computer simulation of dislocation core structure of metastable $\langle 111 \rangle$ dislocations in NiAl, 59
dislocation core structures in B2 NiAl alloys, 95
estimates from atomic models of tension–shear coupling in dislocation nucleation from a crack tip, 67
- Embrittlement**
strain aging embrittlement of the ordered intermetallic compound NiAl, 11
- Fatigue**
micromechanics of stress and strain-controlled high-cycle fatigue crack initiation of intermetallic compounds, 103
- Forging**
thermo-mechanical stability of forged Ti–25Al–11Nb (at.%), 215
- Fracture**
fracture properties of metals and alloys from molecular dynamics simulations, 87
- Intermetallics**
characterization of mechanical properties in the Ir–Nb–Zr intermetallic system, 169
characterization of the deformation behavior of the Cr₂Nb ordered intermetallic system, 177
constitutive modeling of L12 intermetallic crystals, 111
creep of intermetallic composites, 199
deformation mechanisms in intermetallic compounds based on Nb₃Al, 1
deformation twinning in intermetallic compounds—the dilemma of shears vs. shuffles, 39
experimental determination of low order structure factors in the intermetallic compound TiAl, 227
micromechanics of stress and strain-controlled high-cycle fatigue crack initiation of intermetallic compounds, 103
non-Schmid effects and localized plastic flow in intermetallic alloys, 143
properties of ordered intermetallic alloys: first-principles and approximate methods, 49
strain aging embrittlement of the ordered intermetallic compound NiAl, 11
strength and toughness of beryllium–niobium intermetallic compounds, 185
the effects of interstitial elements on the phase stability and mechanical behavior of selected intermetallics, 19
- Iridium**
characterization of mechanical properties in the Ir–Nb–Zr intermetallic system, 169
- Iron**
on the deformation behavior of single crystalline Fe–Al, 29
- Mechanical behavior**
the effects of interstitial elements on the phase stability and mechanical behavior of selected intermetallics, 19

- Mechanical properties**
 characterization of mechanical properties in the Ir-Nb-Zr intermetallic system, 169
- Metals**
 fracture properties of metals and alloys from molecular dynamics simulations, 87
- Molecular dynamics**
 fracture properties of metals and alloys from molecular dynamics simulations, 87
- Nickel**
 computer simulation of dislocation core structure of metastable $\langle 111 \rangle$ dislocations in NiAl, 59
 dislocation core structures in B2 NiAl alloys, 95
 strain aging embrittlement of the ordered intermetallic compound NiAl, 11
- Niobium**
 characterization of mechanical properties in the Ir-Nb-Zr intermetallic system, 169
 characterization of the deformation behavior of the Cr_2Nb ordered intermetallic system, 177
 deformation mechanisms in intermetallic compounds based on Nb_3Al , 1
 first principles phase stability study of the Ru-Nb-Zr system, 161
 strength and toughness of beryllium-niobium intermetallic compounds, 185
 thermo-mechanical stability of forged Ti-25Al-11Nb (at.%), 215
- Ordering**
 characterization of the deformation behavior of the Cr_2Nb ordered intermetallic system, 177
 experimental determination of low order structure factors in the intermetallic compound TiAl, 227
- Phase stability**
 first principles phase stability study of the Ru-Nb-Zr system, 161
 the effects of interstitial elements on the phase stability and mechanical behavior of selected intermetallics, 19
- Phase transformations**
 on pressure-shear plate impact for studying the kinetics of stress-induced phase transformations, 125
- Plasticity**
 non-Schmid effects and localized plastic flow in intermetallic alloys, 143
- Ruthenium**
 first principles phase stability study of the Ru-Nb-Zr system, 161
- Shears**
 deformation twinning in intermetallic compounds—the dilemma of shears vs. shuffles, 39
 estimates from atomic models of tension-shear coupling in dislocation nucleation from a crack tip, 67
 on pressure-shear plate impact for studying the kinetics of stress-induced phase transformations, 125
- Shuffles**
 deformation twinning in intermetallic compounds—the dilemma of shears vs. shuffles, 39
- Single crystals**
 on the deformation behavior of single crystalline Fe-Al, 29
- Strain**
 micromechanics of stress and strain-controlled high-cycle fatigue crack initiation of intermetallic compounds, 103
 strain aging embrittlement of the ordered intermetallic compound NiAl, 11
- Stress**
 micromechanics of stress and strain-controlled high-cycle fatigue crack initiation of intermetallic compounds, 103
 on pressure-shear plate impact for studying the kinetics of stress-induced phase transformations, 125
- Tension**
 estimates from atomic models of tension-shear coupling in dislocation nucleation from a crack tip, 67
- Thermomechanical stability**
 thermo-mechanical stability of forged Ti-25Al-11Nb (at.%), 215
- Titanium**
 experimental determination of low order structure factors in the intermetallic compound TiAl, 227
 thermo-mechanical stability of forged Ti-25Al-11Nb (at.%), 215
- Twinning**
 deformation twinning in intermetallic compounds—the dilemma of shears vs. shuffles, 39
- Zirconium**
 characterization of mechanical properties in the Ir-Nb-Zr intermetallic system, 169
 first principles phase stability study of the Ru-Nb-Zr system, 161

